Index of Claims

| Application No. | Applicant(s)    |
|-----------------|-----------------|
| 10/810,831      | MIYAWAKI ET AL. |
| Examiner        | Art Unit        |
| Quana Grainger  | 2852            |

| √ | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| A | Appeal   |  |  |  |  |  |  |
|---|----------|--|--|--|--|--|--|
| 0 | Objected |  |  |  |  |  |  |

|          |          |          |  |                |  |              | J              |  | ш               |                |          |            |             |              |          |                 |          |          |          |          |          |  |            |            |          |           |          |          |          |           |  |
|----------|----------|----------|--|----------------|--|--------------|----------------|--|-----------------|----------------|----------|------------|-------------|--------------|----------|-----------------|----------|----------|----------|----------|----------|--|------------|------------|----------|-----------|----------|----------|----------|-----------|--|
| Cla      | aim      |          |  |                |  | Dat          | e              | _  |                 |                |          | Claim Date |             |              |          |                 |          |          |          |          |          | Claim  |            |            |          |           | D        | Date     |          |           |  |
| Final    | Original | 7/12/04  |  |                |  |              |                |  |                 |                | Final    | Original   |             |              |          |                 |          |          |          |          |          | Final  | Original   |            |          |           |          |          |          |           |  |
|          | 1        |          |  | Г              | Т  |              |                |  |                 |                |          | 51         | T           | T            |          |                 |          | $\neg$   | 一        | ┪        | 1        |  | 101        |            | 7        | Ť         | T        |          | $\perp$  | T         |  |
|          | 2        |          | $\vdash$   | $\vdash$       |  |              |                |  |                 |                |          | 52         | $\top$      |              |          |                 |          |          |          |          |          |  | 102        |            |          |           |          |          |          | I         |  |
|          | 3        |          |  |                |  |              |                |  |                 |                |          | 53         |             |              |          |                 |          |          |          |          |          |  | 103        |            |          | $\Box$    | $\Box$   |          |          |           |  |
|          | 4        |          |  |                |  |              |                |  |                 |                |          | 54         | $\perp$     |              |          |                 |          |          |          |          |          |  | 104        |            |          | $\perp$   |          |          |          |           |  |
|          | 5        |          |  |                |  |              |                |  |                 |                |          | 55         |             |              |          |                 |          |          |          |          |          |  | 105        |            |          |           |          |          |          | _         |  |
|          | 6        |          | 匚  |                |  |              |                |  |                 |                |          | 56         | $\perp$     |              |          |                 | _        |          | $\perp$  | $\perp$  | _        |  | 106        |            | $\bot$   | _         |          | _        | $\perp$  | 1         |  |
|          | 7        |          | <u> </u>   |                |  |              |                |  |                 |                |          | 57         | ᆚ_          | L            |          |                 | _        | _        |          |          | _        |  | 107        |            | $\perp$  | 4         | _        | _        | $\dashv$ | 4         |  |
| L        | 8        | ldash    | L  | <u> </u>       | L_   | <u> </u>     | <u> </u>       | _  |                 | _              | _        | 58         | _           | ļ            |          |                 | _        |          | _        | _        | 4        | $\square$  | 108        |            | 1        | _         | 4        | _        | $\dashv$ | 4         |  |
| <u> </u> | 9        | ļ        | ļ  | _              | _  | _            | _              | <u> </u>   |                 | $\blacksquare$ | <u> </u> | 59         | $\bot$      | ↓_           | Ш        |                 | 4        | _        | -        | -        | 4        | $\vdash$   | 109        |            | +        | +         | 4        |          | $\dashv$ | 4         |  |
| <u> </u> | 10       |          |  |                | _  | <u> </u>     | <u> </u>       | ┡  | _               | _              | <u> </u> | 60         | 4           | -            | L        |                 |          |          | -        | _        | 4        | $\vdash$   | 110        | $\perp$    | +        |           | 4        |          | $\dashv$ | $\dashv$  |  |
| <u> </u> | 11       | $\vdash$ | <u> </u>   | ₩              | <u> </u>   | <u> </u>     | <u> </u>       | $\vdash$   | Щ               | _              | ·  _     | 61         |             | <del> </del> | $\vdash$ | $\vdash$        |          |          | -1       | +        | 4        | $\vdash \vdash \vdash$                           | 111        | +          | +        | +         | 4        |          | +        | $\dashv$  |  |
|          | 12       | <u> </u> | <del> </del>   | <del> </del>   | ├  | ₩            | ├              | ├  | H               | $\dashv$       |          | 62         | H           | $\vdash$     | $\vdash$ | $\vdash \vdash$ |          |          |          | +        | -        | <del></del>                                      | 112        | -          | +        | +         | +        | $\dashv$ | +        | $\dashv$  |  |
| <u> </u> | 13       | <u> </u> | <del> </del>   | ├              | ├  | ├            | ├              | ⊢  | Н               | $\dashv$       |          | 63         | $\varkappa$ | -            | $\vdash$ | $\vdash\vdash$  |          | $\dashv$ | -        | +        | 4        | $\vdash \vdash \vdash$                           | 113        | _          | +        | +         | 4        | -        | -        | $\dashv$  |  |
| -        | 14<br>15 |          | <u> </u>   | -              | <del> </del>                                     | ┼            | -              | ├  | $\vdash$        | $\dashv$       |          | 64<br>65   | =           | -            | $\vdash$ | Н               | -        | +        | $\dashv$ | +        | 4        |  | 114<br>115 | -          |          | +         | +        | $\dashv$ | +        | $\dashv$  |  |
|          | 16       | H        | -  | <del> </del> — | -  | -            | ┢              | ┢  | Н               | $\dashv$       | -        | 66         | ++          | ╂            | -        | Н               | $\dashv$ | -        | $\dashv$ |          | -        | $\vdash$   | 116        | -          | +        |           | +        | ┥        | -+       | $\dashv$  |  |
| -        | 17       |          | -  | ┝              | -  | -            | ┢              | ├─   | H               | -              | -        | 67         | ╫           | ╁            | -        |                 | $\dashv$ | -        | $\dashv$ |          | ┨        | $\vdash$   | 117        | $\dashv$   | ╁        | +         | +        | -+       | +        | $\dashv$  |  |
| -        | 18       |          |  | -              | -  | 1            | ┢              | <del> </del>                                     | H               |                | -        | 68         | ╫           | ╁            |          |                 |          | -        | +        | +        | -        |  | 118        | -          | ╁        | +         | $\dashv$ | $\dashv$ | +        | $\dashv$  |  |
| -        | 19       |          | $\vdash$   | $\vdash$       | -  | <del> </del> | $\vdash$       | <del> </del>                                     | Н               | -              | $\vdash$ | 69         | ╫           | ╁            | Н        | Н               | -        | -        | $\dashv$ | -+       | -        | <b></b>  | 119        | -          | ┿        | +         | +        | -        | -+-      | $\dashv$  |  |
| -        | 20       |          | -  | $\vdash$       | -  | ┢            | ┢              | ╁  | Н               | $\dashv$       | $\vdash$ | 70         | ₩           | ╁            | -        | Н               | $\dashv$ | -        | $\dashv$ | +        | -        | $\vdash$   | 120        | $\dashv$   | ╅        | ╅         | +        | -        | +        | $\dashv$  |  |
| $\vdash$ | 21       |          | $\vdash$   | -              | <del>                                     </del> | -            | -              | -  | -               | -              | -        | 71         | ╫           | ╁            | -        | $\vdash$        | $\dashv$ | -        | $\dashv$ |          | ┨        | $\vdash$   | 121        |            | ╅        | +         | +        | $\dashv$ |          | $\dashv$  |  |
| <u> </u> | 22       |          | $\vdash$   |                |  | H            | H              | <del>                                     </del> | Н               |                | -        | 72         | ╫           | +            | Н        | Н               |          | 7        | +        | +        | 1        | $\vdash$   | 122        | $\dashv$   | ╅        | +         | +        |          | +        | ┪         |  |
|          | 23       |          | _  | 1              | $\vdash$   | H            | $\vdash$       | <u> </u>   | Н               |                |          | 73         | ╫           | $\vdash$     | $\vdash$ |                 | $\neg$   | _        | 1        | _        | 1        |  | 123        | +          | +        | $\top$    | ┪        | 一        | 十        | $\dashv$  |  |
|          | 24       |          |  | $\vdash$       |  | ┢            | $\vdash$       | <b></b> -  |                 |                |          | 74         | 11          |              | _        |                 | 寸        |          | _        | $\neg$   | 1        |  | 124        | 1          | $\top$   | -         | $\dashv$ | 7        | $\dashv$ | 7         |  |
| 1-       | 25       | 1.       |  |                |  |              |                | T  |                 |                | ·        | 75         | 11          |              |          |                 | T        |          | $\dashv$ |          | 1        |  | 125        | $\neg$     | $\top$   | $\top$    | 7        | $\dashv$ | $\top$   | ヿ         |  |
|          | 26       | _        |  | $\vdash$       | 1  | $\vdash$     | T              | T  | $\vdash$        | $\neg$         |          | 76         | 14          | 1            |          |                 |          | $\neg$   | $\dashv$ |          | 1        |  | 126        | _          | +        | 1         | 7        | 寸        | $\dashv$ | ヿ         |  |
|          | 27       |          |  |                |  |              |                | İ  | П               |                |          | 77         | 1           | Т            |          |                 |          |          |          |          | 1        |  | 127        |            | $\top$   |           | T        | $\neg$   | $\top$   | 7         |  |
|          | 28       |          |  |                |  |              |                |  |                 |                |          | 78         | IJ          |              | П        |                 | Ì        |          |          | 1        | 1        |  | 128        |            |          | $\top$    | 7        | T        | $\neg$   | ╗         |  |
|          | 29       |          |  |                |  | Г            | Г              | Г  |                 |                |          | 79         | 1           |              |          |                 | T        |          | $\neg$   |          | 7        | П  | 129        | $\neg$     | $\top$   | 7         | 7        | T        |          | ٦         |  |
|          | 30       |          |  |                |  |              |                |  |                 |                |          | 80         | V           |              |          |                 |          |          |          |          |          |  | 130        |            |          | T         |          |          |          | $\Box$    |  |
|          | 31       |          |  |                |  |              |                |  |                 |                |          | 18         | IJ          |              |          |                 |          |          |          |          |          |  | 131        |            |          |           |          |          |          | $\Box$    |  |
|          | 32       |          |  |                |  |              |                |  |                 |                |          | 82         | L           |              |          |                 |          |          |          |          |          |  | 132        |            |          |           |          |          |          |           |  |
|          | 33       |          | L  |                |  |              |                | _  | Ш               |                |          | 83         | ┸           |              |          |                 |          |          | $\perp$  |          | ╛        |  | 133        |            | $\perp$  |           | $\perp$  |          | $\perp$  | $\perp$   |  |
|          | 34       |          | L  | _              | <u> </u>   | $\perp$      | <u>L</u>       | <u> </u>   | Ш               |                | -        | 84         | - -         | -            | <u> </u> | -               | = :      |          | = :      |          | ╣-       |  | -134       |            |          |           |          | _        |          | $\exists$ |  |
| <u></u>  | 35       | Ш        | L.   | Ш              | Ь  | $\vdash$     | _              | <u> </u>   | Щ               |                | <u> </u> | 85         | 1_          | 1            | Ш        |                 |          |          | _        | _        | 4        | $\sqcup$   | 135        |            | 4        | 4         | 4        | 4        | 4        | 4         |  |
| <u></u>  | 36       | L_       | $ldsymbol{ld}}}}}}}}}$ | _              | <u> </u>   | <u> </u>     | <u> </u>       | oxdot  | Ш               |                |          | 86         | 1_          | ↓_           | Ш        | $\Box$          |          |          | _        | $\perp$  | 4        |  | 136        |            | 4        | 1         | 4        | 4        | $\bot$   | 4         |  |
| <u> </u> | 37       | L        | <u> </u>   | $\vdash$       | <u> </u>   | <u> </u>     | ┞              | <u> </u>   | Н               | $\dashv$       | <br>     | 87         | 4           | 1            | Ш        | $\square$       | _        | _        | 4        | _        | 4        |  | 137        | _ _        | $\bot$   | 1         | 4        | 4        | +        | 4         |  |
| <u> </u> | 38       | <u> </u> | ļ  | <u> </u>       | <u> </u>   | <u> </u>     | <u> </u>       | <u> </u>   | Ш               | _              | <u> </u> | 88         | 1           | $\vdash$     | Ш        | $\square$       | _        | 4        | 4        | +        | 4        | $\vdash \vdash \vdash$                           | 138        | _          | $\bot$   | 4         | 4        | 4        | -        | 4         |  |
| <u> </u> | 39       |          | $\vdash$   |                | $\vdash$   | ├            | $\vdash$       | <u> </u>   | Н               |                |          | 89         | +-          | 1_           | Ш        | $\vdash \vdash$ | -        | 4        | $\dashv$ | +        | 4        | $\vdash$   | 139        | $\dashv$   | 4        | +         | +        | $\dashv$ | -        | 4         |  |
|          | 40       | Н        | $\vdash$   | <u> </u>       | <u> </u>   | ├            | ├-             | -  | $\vdash \vdash$ | $\dashv$       | <u> </u> | 90         | +           | $\vdash$     | $\sqcup$ | $\square$       | $\dashv$ | $\dashv$ | $\dashv$ | +        | $\dashv$ |  | 140        | +          | +        | +         | 4        | -        | +        | 4         |  |
| <b>—</b> | 41       | Н        | $\vdash$   | $\vdash$       | ⊢  | <del> </del> | <del> </del> — | <del> </del>                                     | $\vdash$        | -              | <u> </u> | 91         | +           | $\vdash$     | Н        |                 | -        |          | -        | $\dashv$ | 4        |  | 141        | +          | +        | +         | 4        |          | +        | 4         |  |
|          | 42<br>43 | Н        | $\vdash$   | $\vdash$       | ⊢  | ⊢            | <del> </del> — | $\vdash$   | $\vdash$        |                | -        | 92         | +           | -            | Н        |                 | $\dashv$ |          | -        | -        | ┥        | $\vdash$   | 142<br>143 |            | +        | +         | +        | $\dashv$ | -+-      | 4         |  |
| -        | 44       | Н        | $\vdash$   | $\vdash$       | $\vdash$   | $\vdash$     | $\vdash$       | $\vdash$   | Н               | -              | $\vdash$ | 93         |             | -            | $\vdash$ | -               | -        |          | $\dashv$ | +        | $\dashv$ |  | 144        |            | +        | +         | +        | $\dashv$ | -+-      | +         |  |
| -        | 45       | Н        | $\vdash$   | H              | $\vdash$   | $\vdash$     | $\vdash$       | $\vdash$   | Н               | -              | $\vdash$ | 95         | +           |              | $\vdash$ | $\vdash$        | -        | $\dashv$ | $\dashv$ | +        | $\dashv$ | $\vdash$   | 145        |            | +        | +         | +        | $\dashv$ | +        | $\dashv$  |  |
|          | 46       | Н        | $\vdash$   | $\vdash$       | $\vdash$   | $\vdash$     | ╌              | $\vdash$   | $\vdash$        | $\dashv$       | $\vdash$ | 96         | +           | H            | $\vdash$ | $\vdash$        | $\dashv$ | +        | +        | +        | $\dashv$ | $\vdash$   | 146        | $-\dagger$ | +        | +         | +        | $\dashv$ | +        | +         |  |
| <u> </u> | 47       | Н        |  |                |  | H            |                | $\vdash$   | $\vdash$        | $\dashv$       | <u> </u> | 97         | +-          |              | $\vdash$ |                 | +        | $\dashv$ |          | +        | ┨        | <del>                                     </del> | 147        |            | $\dashv$ | +         | $\dashv$ | $\dashv$ | +        | +         |  |
|          | 48       | $\vdash$ |  | _              | Н  |              |                | $\vdash$   | H               | ᅱ              |          | 98         | +           | $\vdash$     |          |                 | +        | $\dashv$ |          | ╅        | 1        |  | 148        | +          | +        | +         | +        | $\dashv$ | +        | +         |  |
|          | 49       |          |  |                |  |              |                | 1  |                 | $\dashv$       |          | 99         | +-          | $\vdash$     | $\vdash$ | $\neg$          | 十        | $\dashv$ | $\dashv$ | +        | 1        |  | 149        | $\dashv$   | +        | $\dagger$ | +        | $\dashv$ | 十        | 7         |  |
|          | 50       |          |  |                |  |              | $\vdash$       | T  | H               | $\dashv$       |          | 100        |             | $\vdash$     | $\vdash$ |                 | +        | -+       | -        | +        | 1        |  | 150        | $\dashv$   | +        | ✝         | 十        | -        | +        | 7         |  |
| -        |          |          |  |                | Ь_   | ᆫ            | _              | _  |                 |                | L        |            |             |              | -        | 1               |          |          |          |          |          |  |            |            |          |           |          |          |          | _         |  |